

**Amendments to the Specification:**

Please change the Title of the Invention to read as follows:

METHOD FOR MANUFACTURING PLANAR OPTICAL WAVEGUIDE HAVING  
DOPED INORGANIC-ORGANIC HYBRID MATRIX WAVEGUIDE LAYER.

Please replace the paragraph that begins at page 9, line 13, with the following rewritten paragraph:

Afterwards, a pattern mask 4 is applied onto the optical waveguide layer 3, followed by the exposure of the optical waveguide layer 3 to radiation 5, e.g., light, in a specific wavelength band. This patterning process may be conducted with laser in the absence of a mask.

Please replace the paragraph that begins at page 22, line 12 (the last line on page 22), with the following rewritten paragraph:

The same procedure as that of Example 3 was carried out, with the exception that ~~perfluoroalkylsilane~~ perfluoroalkylsilane was substituted for 25 mol % of the methacrylic oxypropyltrimethoxysilane (MPTS) used. Coatings of the inorganic-organic hybrid matrix solution ~~was~~ were found to have a refractive index of 1.454 at 1550 nm. The results are given in Table 4, below.